International Application No PCT/EP2004/051262

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C08F210/06 C08F4/642 C08F4/76 C08F210/06 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 C08F Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, CHEM ABS Data, INSPEC C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with Indication, where appropriate, of the relevant passages Relevant to claim No. X WO 96/07681 A (DOW CHEMICAL CO) 1,5,9-15 14 March 1996 (1996-03-14) page 42; example 32 table 7 claim 5 X CAPORASO, LUCIA ET AL: 1,5,9-15 "Enantioselectivity of C8- and C2-Symmetric ansa-Metallocene Catalysts in the Styrene Insertion" MACROMOLECULES (2000), 33(20), 7275-7282, 2000, XP001187513 the whole document Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the levelop. *A* document defining the general state of the art which is not considered to be of particular relevance invention *E* earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date 'L' document which may throw doubts on priority claim(s) or which is clied to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 11 November 2004 23/11/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Parry, J

C (ON	-VV DOGULIFATO CONCEDED TO DE OFF FULLY	PC1/EF2004/051202
Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KUO, JING-CHUNG ET AL: "Synthesis of syndiotactic polypropylene based diblock copolymer via metallocene catalyst mediated chain transfer reaction" POLYMER PREPRINTS (AMERICAN CHEMICAL SOCIETY, DIVISION OF POLYMER CHEMISTRY) (2003), 44(2), 10-11, 2003, XP008027256 the whole document	1,5,9-15
X	DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; ARAI, TOORU ET AL: "Propylene-aromatic vinyl compound copolymers with specific stereoregularity in propylene chain structure, and their efficient preparation" XP002269696 retrieved from STN	1,9-15
Y	Database accession no. 126:31838 abstract & JP 08 269134 A (DENKI KAGAKU KOGYO KK, JAPAN) 15 October 1996 (1996-10-15) paragraph '0015! - paragraph '0026!; table	2-4,6-8
X	DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; MORI, RYOJI ET AL: "Syndiotactic propylene polymers, thermoplastic resin compositions containing them, and molded products therefrom with balanced rigidity, surface hardness, and impact resistance" XP002269697 retrieved from STN Database accession no. 133:267637 abstract & JP 2000 273123 A (MITSUI CHEMICAL INDUSTRY CO., LTD., JAPAN) 3 October 2000 (2000-10-03) page 115 - page 128; claim 4	1,9-15
X	DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; MICHKAMI, KENJI ET AL: "Random polymerization of aromatic vinyl monomers and olefins using aluminoxane-free metallocene catalyst systems" XP002269694 retrieved from STN Database accession no. 131:102672 abstract -/	1,9-15

	PCT/EP2004/051262
Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
& JP 11 199614 A (MITSUI CHEMICALS INC., JAPAN) 27 July 1999 (1999-07-27) paragraph '0030! - paragraph '0049!	
DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; MYATA, HIROSHI ET AL: "Ethylenealphaolefin-aromatic vinyl compound random copolymers and their manufacture" XP002269698 retrieved from STN Database accession no. 124:118309 abstract & JP 07 278230 A (TOSOH CORP, JAPAN) 24 October 1995 (1995-10-24)	1,9-15
EP 0 520 732 A (DOW CHEMICAL CO., USA) 30 December 1992 (1992-12-30) page 11 - page 13; examples 59-100; tables III,IV page 14 - page 15; example 103	13–15
WO 00/49029 A (FINA RESEARCH; RAZAVI ABBAS (BE)) 24 August 2000 (2000-08-24) example 1E page 29 figures 1-12 claim 1	2-4,6-8
EP 1 179 553 A (ATOFINA RES) 13 February 2002 (2002-02-13) claim 1; tables 1-4	1-15
EP 1 083 188 A (FINA RESEARCH) 14 March 2001 (2001-03-14) claim 1; tables 1,2	1-15
RAZAVI, A. ET AL: "Preparation and crystal structures of the complexes (.eta.5-C5H3TMS-CMe2eta.5-C13H8)MC12 and '3,6-ditButC13H6-SiMe2- NtBu!MC12 (M=Hf, Zr or Ti): mechanistic aspects of the catalytic formation of a isotactic-syndiotactic stereoblock-type polypropylene" JOURNAL OF ORGANOMETALLIC CHEMISTRY, 621 (1-2), 267-276 CODEN: JORCAI; ISSN: 0022-328X, 2001, XP004231263 cited in the application the whole document	1-15
	& JP 11 199614 A (MITSUI CHEMICALS INC., JAPAN) 27 July 1999 (1999-07-27) paragraph '0030! - paragraph '0049! DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; MYATA, HIROSHI ET AL: "Ethylenealphaolefin-aromatic vinyl compound random copolymers and their manufacture" XP002269698 retrieved from STN Database accession no. 124:118309 abstract & JP 07 278230 A (TOSOH CORP, JAPAN) 24 October 1995 (1995-10-24) EP 0 520 732 A (DOW CHEMICAL CO., USA) 30 December 1992 (1992-12-30) page 11 - page 13; examples 59-100; tables III,IV page 14 - page 15; example 103 WO 00/49029 A (FINA RESEARCH; RAZAVI ABBAS (BE)) 24 August 2000 (2000-08-24) example 1E page 29 figures 1-12 claim 1 EP 1 179 553 A (ATOFINA RES) 13 February 2002 (2002-02-13) claim 1; tables 1-4 EP 1 083 188 A (FINA RESEARCH) 14 March 2001 (2001-03-14) claim 1; tables 1,2 RAZAVI, A. ET AL: "Preparation and crystal structures of the complexes (.eta.5-C5H3TMS-CMe2eta.5-C13H8)MC12 and '3,6-ditButC13H6-SiMe2- NtBu!MC12 (M=Hf, Zr or Ti): mechanistic aspects of the catalytic formation of a isotactic-syndiotactic stereoblock-type polypropylene" JOURNAL OF ORGANOMETALLIC CHEMISTRY, 621 (1-2), 267-276 CODEN: JORCAI; ISSN: 0022-328X, 2001, XP004231263 cited in the application

Information on patent family members

	ent document in search report		Publication date		Patent family member(s)	Publication date
WO 9	9607681	Α	14-03-1996	AT AU	185822 T 700074 B2	15-11-1999 17-12-1998
				AU	3239095 A	27-03-1996
				BR	9509193 A	21-10-1997
				CA	2198136 A1	14-03-1996
				CN	1362424 A	07-08-2002
		ı		CN	1379050 A	13-11-2002
				CN	1362425 A	07-08-2002
				CN	1159814 A ,B	17-09-1997
				DE	69512926 D1	25-11-1999
				ÐΕ	69512926 T2	04-05-2000
				EP	0778852 A1	18-06-1997
				ES	2139926 T3	16-02-2000
				FI	970876 A	03-03-1997
				IL	115112 A	22-12-1999
				JP	10505621 T	02-06-1998
				NO	970942 A	28-04-1997
				RU	2159779 C2	27-11-2000
				MO	9607681 A1	14-03-1996
				US	6111020 A	29-08-2000
				US	5869591 A	09-02-1999
				US	5977271 A	02-11-1999
				ZA 	9507323 A	28-02-1997
JP 	8269134 	A	15-10-1996	JP	3489697 B2	26-01-2004
JP 	2000273123	Α	03-10-2000	NONE		
JP	11199614	A	27-07-1999	NONE		
JP	7278230	Α	24-10-1995	JP	3536341 B2	07-06-2004
ΕP	0520732	Α	30-12-1992	US	5721185 A	24-02-1998
				CA	2072058 A1	25-12-199
				CN	1068125 A ,B	
				DE	69206497 D1	18-01-199
				DE	69206497 T2	18-07-199
				EP	0520732 A1	30-12-199
				ES	2080447 T3	01-02-199
				FI JP	922921 A	25-12-199
				JP	3339883 B2 5194641 A	28-10-200
				KR	233966 B1	03-08-199 15-12-199
				MX	9203162 A1	01-02-199
WO	0049029	Α	24-08-2000	WO	0049029 A1	24-08-200
				AT	271071 T	15-07-200
				AU	2806200 A	04-09-200
				ΑÜ	3141199 A	04-09-200
				BR	0008312 A	22-01-200
				CA	2371835 A1	24-08-200
				CN	1346373 T	24-04-200
				DE	60012166 D1	19-08-200
				MO	0049056 A1	24-08-200
				EP	1169356 A1	09-01-200
				JP	2002510358 T	02-04-200
				US	6515086 B1	04-02-200

Information on patent family members

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 1179553	A	13-02-2002	EP AU WO US	1179553 A1 8400501 A 0212358 A1 2004077805 A1	13-02-2002 18-02-2002 14-02-2002 22-04-2004
EP 1083188	Α	14-03-2001	EP AU WO EP US US	1083188 A1 7653400 A 0119877 A1 1224228 A1 2004087746 A1 6630550 B1	14-03-2001 17-04-2001 22-03-2001 24-07-2002 06-05-2004 07-10-2003